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**United States Patent** [19]

Iso et al.

[11] **Patent Number:** **5,894,670**[45] **Date of Patent:** **Apr. 20, 1999**[54] **ELECTRIC SHAVING SYSTEM**[75] Inventors: **Takeshi Iso; Teruo Hishiki**, both of  
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N.Y.[21] Appl. No.: **08/957,110**[22] Filed: **Oct. 24, 1997**[30] **Foreign Application Priority Data**

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[51] **Int. Cl.<sup>6</sup>** ..... **B26B 19/38**[52] **U.S. Cl.** ..... **30/541; 30/537; 206/351;**  
206/459.1; 340/825.22; 340/825.72[58] **Field of Search** ..... 30/41.7, 41.8,  
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825.22, 825.72, 568; 206/351, 459.1[56] **References Cited****U.S. PATENT DOCUMENTS**

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Spain[57] **ABSTRACT**

A shaving system with two main components: an electric shaver and a remote device which has a display unit for presenting specific data to the user. The remote device may further comprise a mirror. The mirror and the display unit may be combined to form a single unit. The display unit may be incorporated in the mirror, which for this purpose may be implemented as a partly transparent mirror with the display unit mounted on the backside of the mirror. Additionally, the remote device may perform the function of charging stand for a rechargeable battery of the shaver. In that case the remote device has a docking bay for receiving the shaver. The shaver's battery is charged via electrical contacts between the remote device and the electric shaver, or by means of coils in the remote device and the shaver. The display unit displays status information of the shaver and provides feedback to the user during shaving. The remote device may further be implemented with knobs, buttons or slide controls to adjust shaving parameters in the shaver. Also environmental sensors may be incorporated in the remote device to inform the electric shaver of information relevant to shaving comfort. The data exchange between the remote device and the electric shaver is performed through wireless communication, which for some functions is a two-way communication.

**8 Claims, 3 Drawing Sheets**